

PATENT

Amendments to the Claims

Following is a complete set of claims as amended with this Response. This complete set of claims excludes cancelled claims 38 and 47-50 and includes amended claims 32, 39, and 43.

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KDY
3/15/05*
1. (Previously Presented) An implantable cardiac rhythm device comprising:
a sensing circuit configured to sense physiological cardiac events;
a pulse generator configured to deliver electrical stimulation energy to selected cardiac tissue upon the sensing of selected cardiac events, the pulse generator having storage capacitors that store the stimulation energy;
a Lithium Pentoxide (LP) battery coupled to the storage capacitors, the LP battery providing a charging current to charge the storage capacitors to preselected energy level;
a supply battery, switchably connected in parallel to the LP battery, having characteristics that enable the supply battery to recharge the LP battery;
a recharging circuit coupled to the LP battery and configured to deliver recharging current to the LP battery; and
a controller programmed to enable the supply battery to recharge the LP battery when voltage across the LP battery falls below a predetermined minimum value.

2. (Original) The device of claim 1, wherein the LP battery is a Lithium Silver Vanadium Oxide (SVO) battery.

3. (Original) The device of claim 1, wherein the LP battery is recharged upon the detection of a predetermined number of deliveries of stimulation energy.

4. (Previously Presented) The device of claim 1, further comprising a LP battery voltage detector, operative to cause the LP battery to be recharged when the LP battery voltage is detected as being below the predetermined minimum value.